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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/657,505	09/08/2003	Chii-Ming Wu	TS01-1247 9336			
42717	7590 03/10/2005		EXAMINER			
HAYNES AND BOONE, LLP 901 MAIN STREET, SUITE 3100			KENNEDY, JENNIFER M			
DALLAS, T			ART UNIT .	PAPER NUMBER		
,			2812			
			DATE MAILED: 03/10/200	DATE MAILED: 03/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	· · · · · · · · · · · · · · · · · · ·	Application	on No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·			
Office Action Summary		10/657,50	10/657,505 WU ET AL.					
		Examiner		Art Unit				
		Jennifer M	l. Kennedy	2812				
Period fo	The MAILING DATE of this communic or Reply	cation appears on the	cover sheet with the c	orrespondence ac	ddress			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply specified above is less than thirty (30 period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months affed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no even unication. of days, a reply within the state utory period will apply and wi vill, by statute, cause the apply	ent, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEC	ely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	d on <u>08 September 2</u>	<u>2003</u> .					
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.							
3) 🔲	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)	4) ☑ Claim(s) 1-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected.							
Applicat	ion Papers							
9)[]	The specification is objected to by the	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	•						
Priority (under 35 U.S.C. § 119	·	v					
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of None of: 2. Certified copies of the priority of None of: 3. Copies of the certified copies of the priority of None of the certified copies of the attached detailed Office actions	locuments have bee locuments have bee f the priority docume al Bureau (PCT Rule	n received. n received in Application ents have been receive e 17.2(a)).	on No d in this National	Stage			
Attachmen			, , , , ,					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	O-948)	4) Interview Summary (Paper No(s)/Mail Da					
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date		5) Notice of Informal Pa		O-152)			

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DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention: A first embodiment represented by Figures 2a-2c and Figure 3. A second embodiment represented by Figures 4a-4f and Figure 5.

Once Applicant has elected one embodiment from the first and second embodiment as defined above, then Applicant must elect one from each of the following lettered groups A through D:

A. Titanium Precursor

- A-1. Ti (OCH(CH₃)₂)₄
- A-2. TDMAT
- A-3. TDEAT
- A-4. TBTDET
- A-5. TiCl₄
- A-6. TaCl₅

B. Second Precursor

- B-1. Silicon source gas
- B-2. Boron source gas

C. Monolayer formed

- C-1. MN
- C-2. MSi
- C-3. MB
- C-4. MSN (where S is defined by Applicant in claim 40)
- C-5. MMSN

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C-6. MSiBN

C-7. MSiN

C-8. MBN

D. Planarization

D-1. CMP

D-2. Plasma

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lennifer M. Kennedy

Patent Examiner Art Unit 2812

jmk